

Recombinant SARS-CoV-2 (2019-nCoV) Nucleocapsid

Product Name:

Recombinant SARS-CoV-2 (2019-nCoV) Nucleocapsid

Cat. Number:

BN42208P

Quantity size:

100ug; 500ug

MW:

47kDa

Source:

Recombinant protein

Form:

lyophilized powder

Purity:

≥95% (Purified by HPLC)

Storage:

20mM Tris-HCl 0.5M NaCl Ph8.0 Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Application:

Immunology research

Background:

Coronaviruses are enveloped viruses with a positive-sense RNA genome and with a nucleocapsid of helical symmetry.

Coronavirus nucleoproteins localize to the cytoplasm and the nucleolus, a subnuclear structure, in both virus-infected primary cells and in cells transfected with plasmids that express N protein. Coronavirus N protein is required for coronavirus RNA synthesis, and has RNA chaperone activity that may be involved in template switch. Nucleocapsid protein is a most abundant protein of coronavirus. During virion assembly, N protein binds to viral RNA and leads to formation of the helical nucleocapsid. Nucleocapsid protein is a highly immunogenic phosphoprotein also implicated in viral genome replication and in modulating cell signaling pathways. Because of the conservation of N protein sequence and its strong immunogenicity, the N protein of coronavirus is chosen as a diagnostic tool.

Also known as:

SARS-CoV-2 Nucleocapsid Protein; SARS-CoV-2 NP; nucleocapsid protein [Severe acute respiratory syndrome coronavirus 2]; novel coronavirus N Protein; novel coronavirus Nucleocapsid Protein; 2019-nCoV Nucleoprotein; 2019-nCoV N; 2019nCoV N; 2019-nCoV N Protein; 2019 ncov N Protein; 2019-nCoV nucleocapsid protein.